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FIG. 1

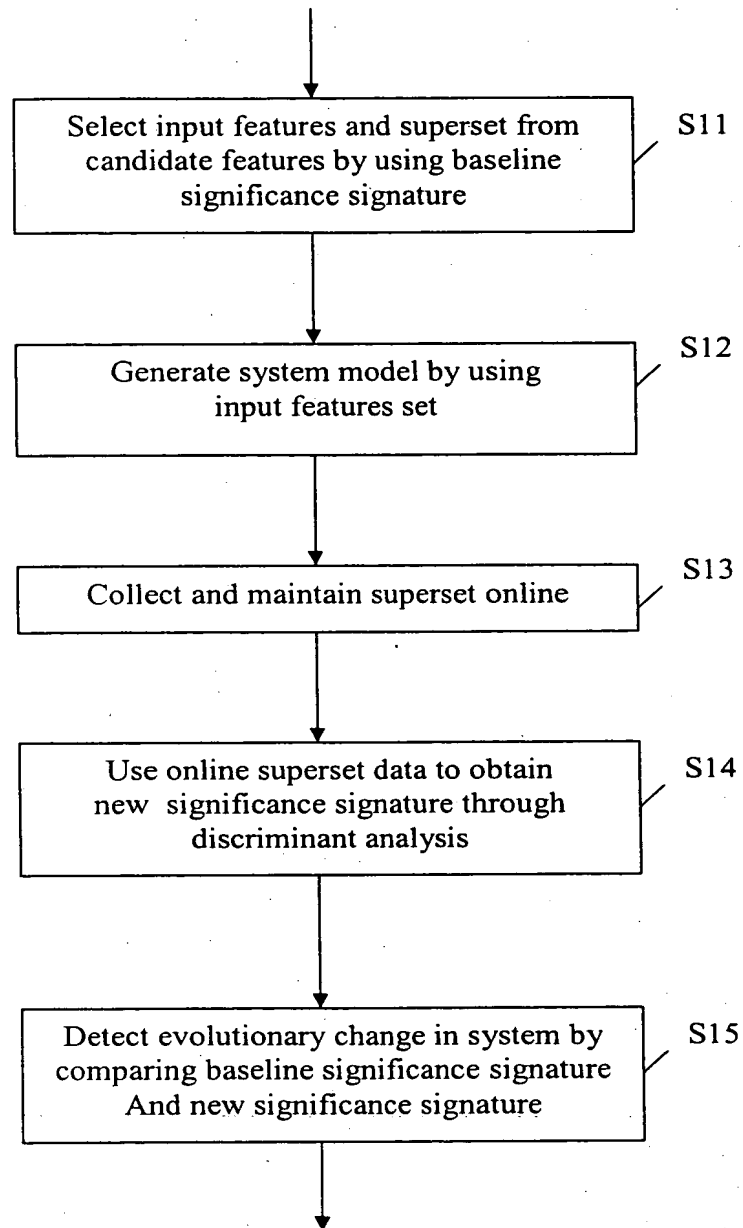


FIG. 2

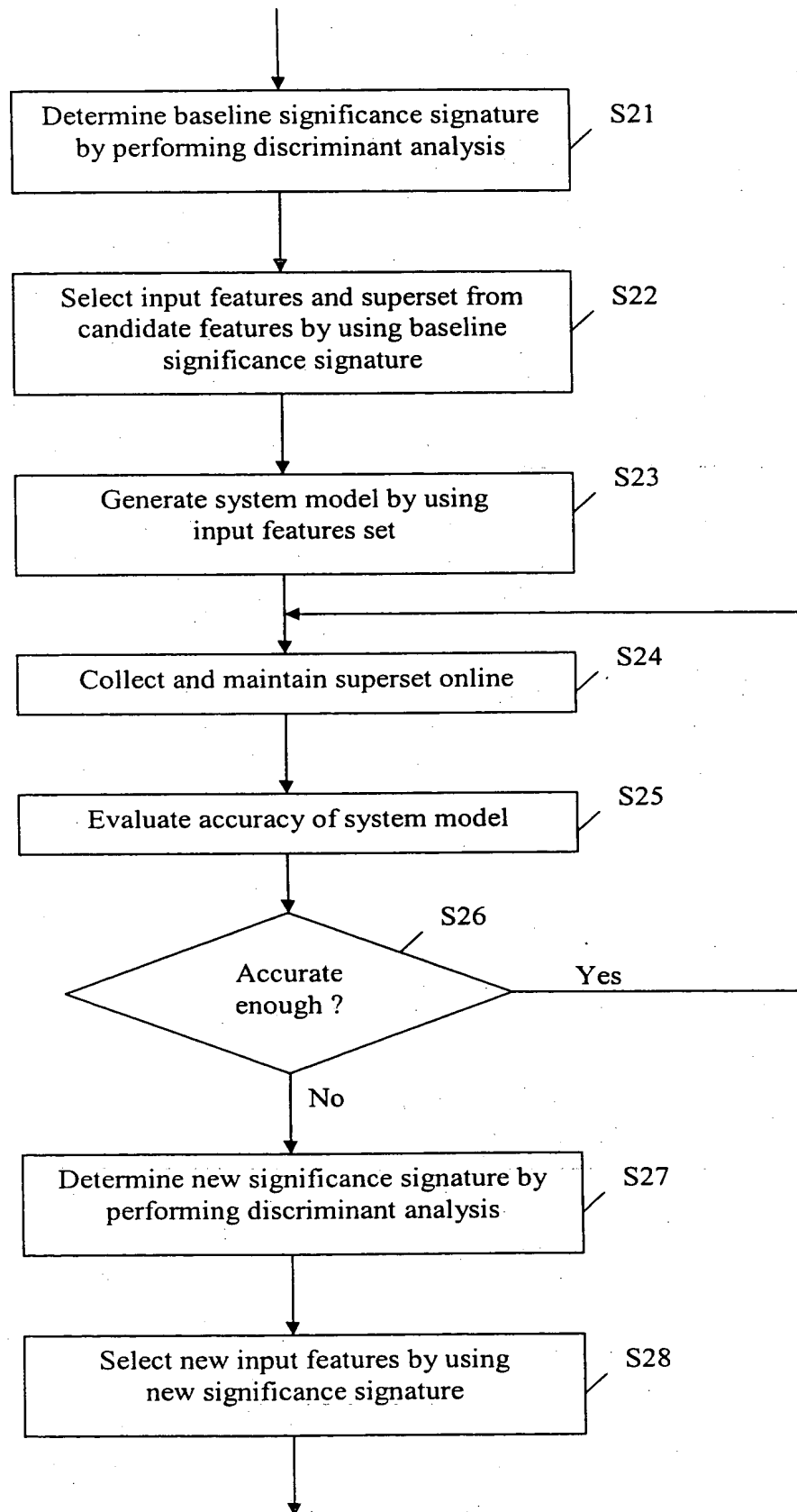
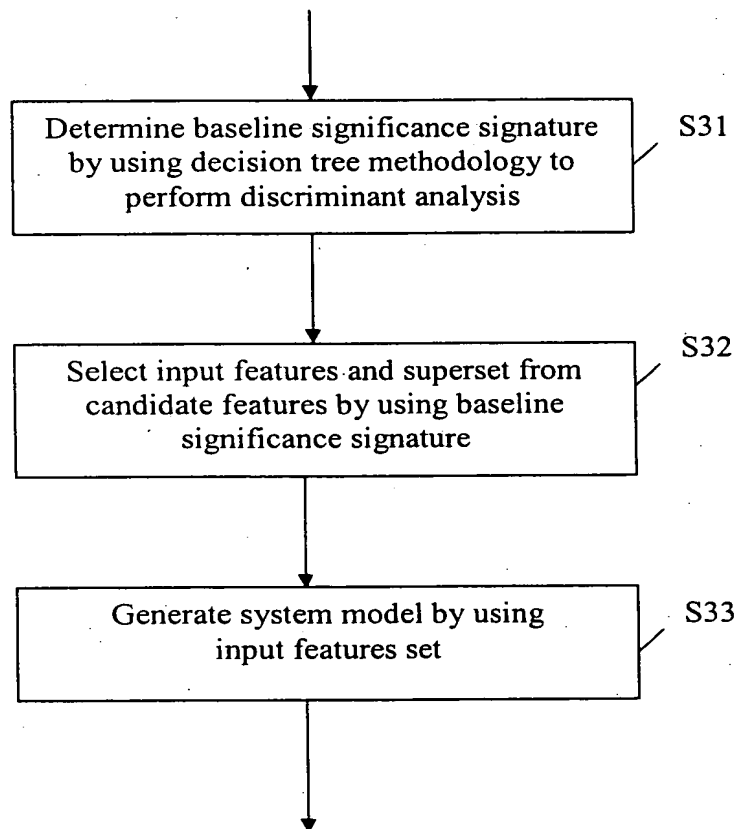


FIG. 3



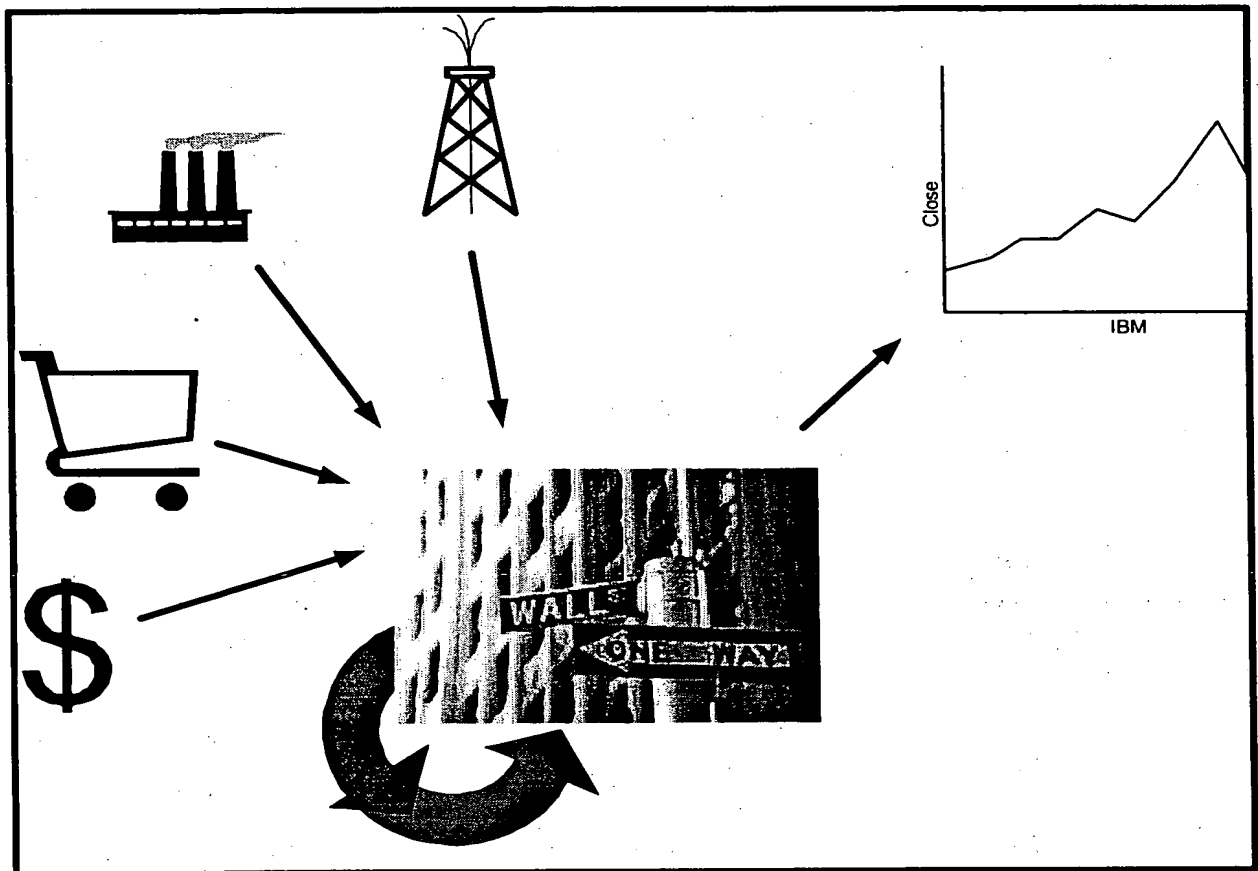


FIG. 4

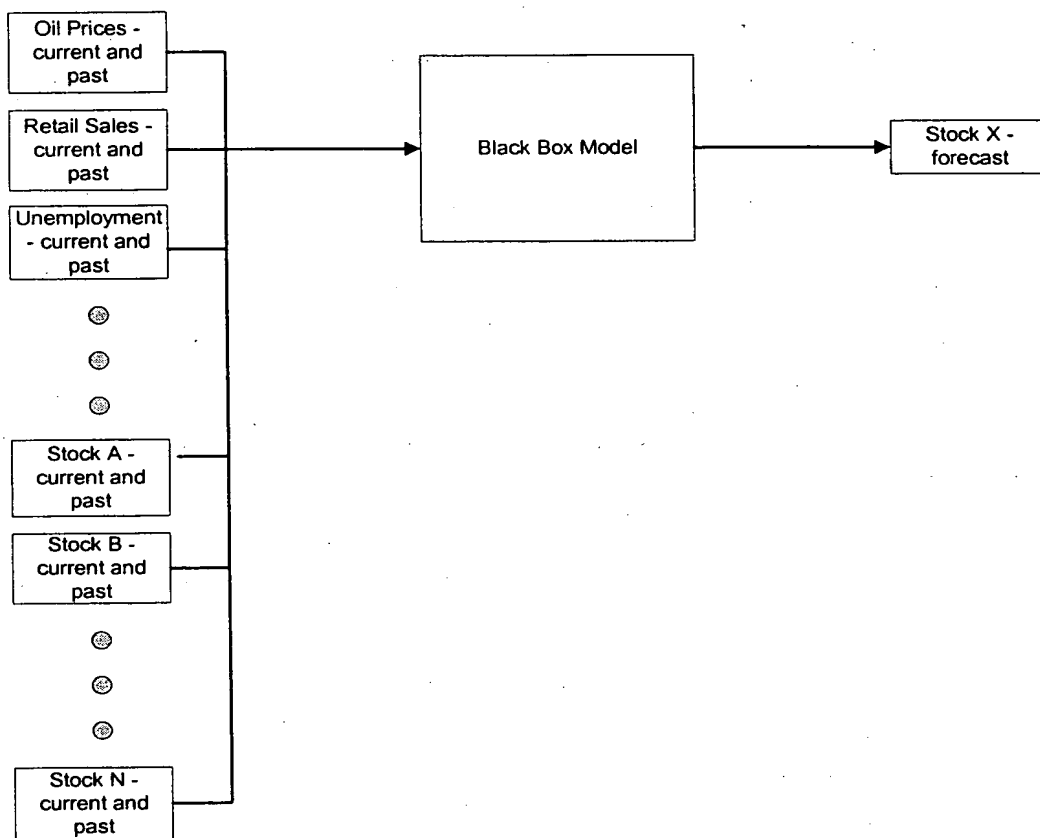


FIG. 5

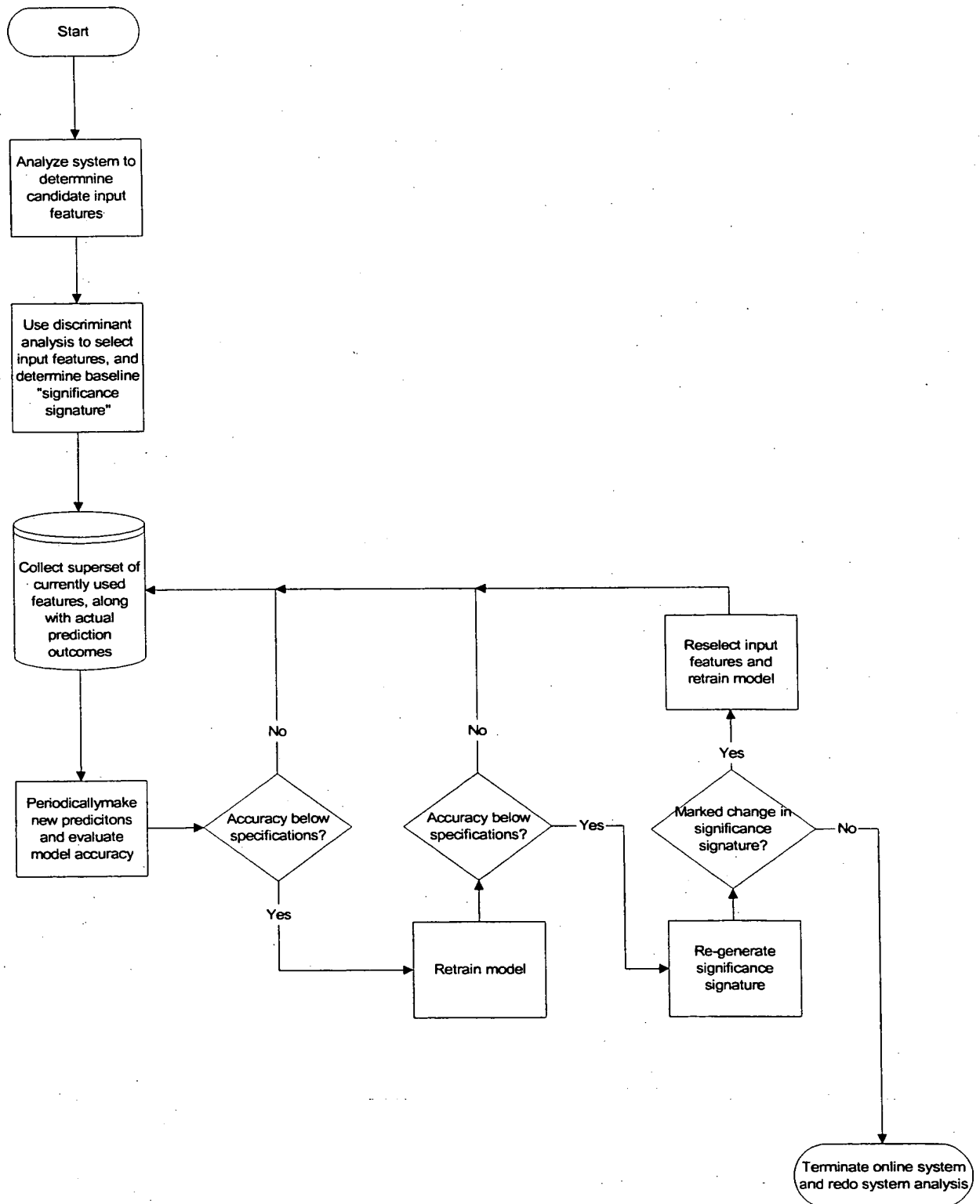


FIG. 6

FIG. 7

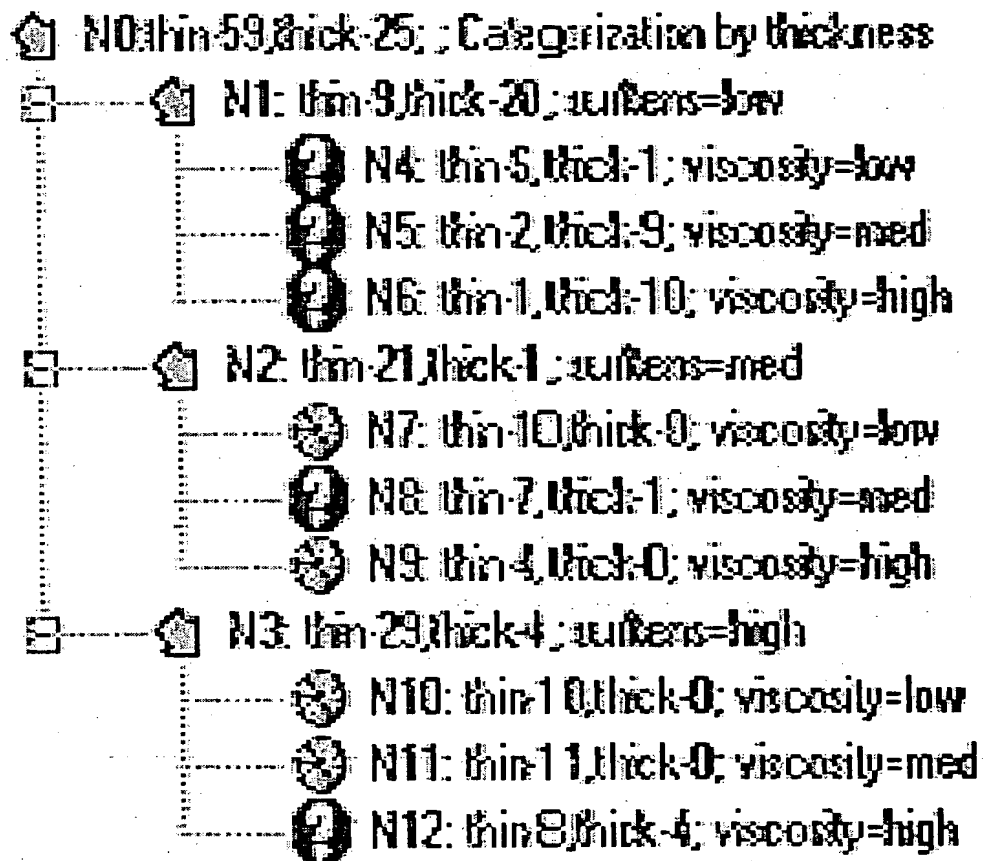


FIG. 8

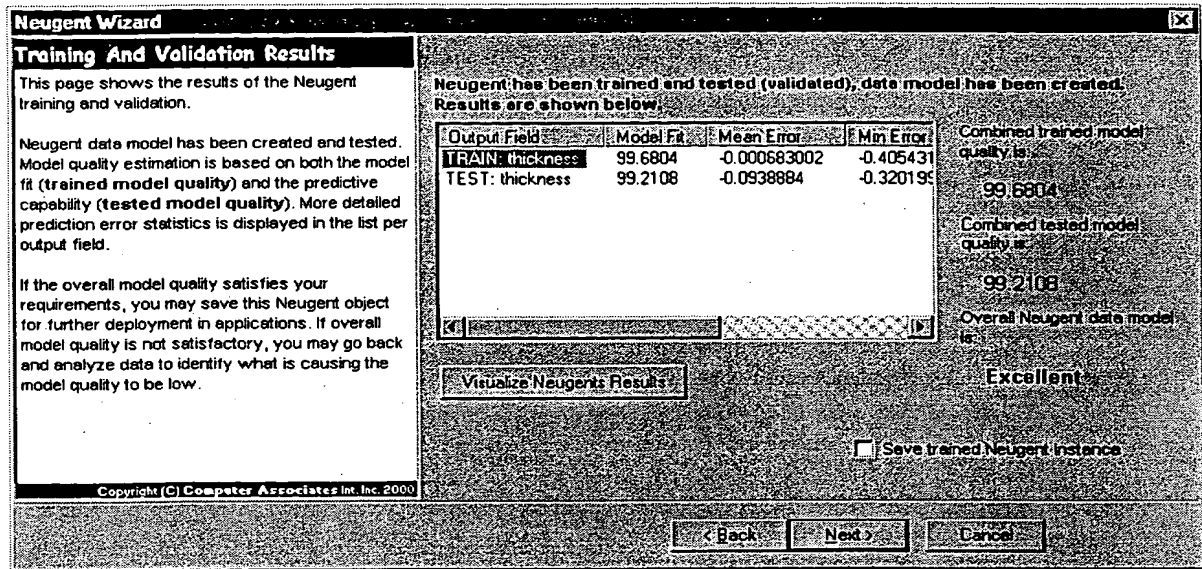


FIG. 9

Entropy reduction

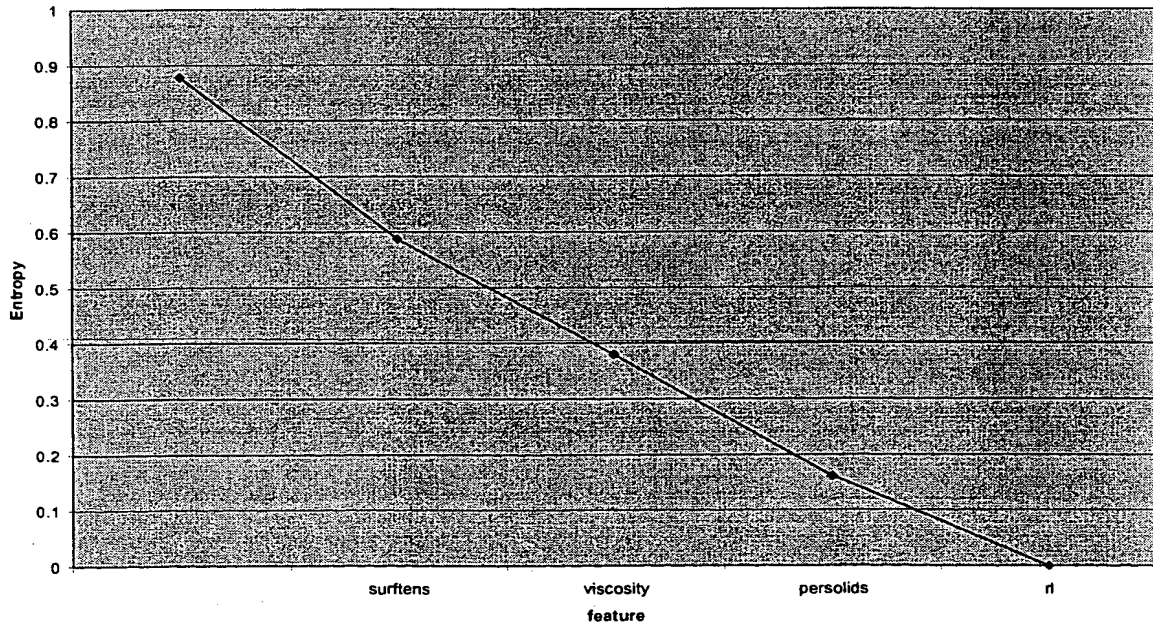


FIG. 10

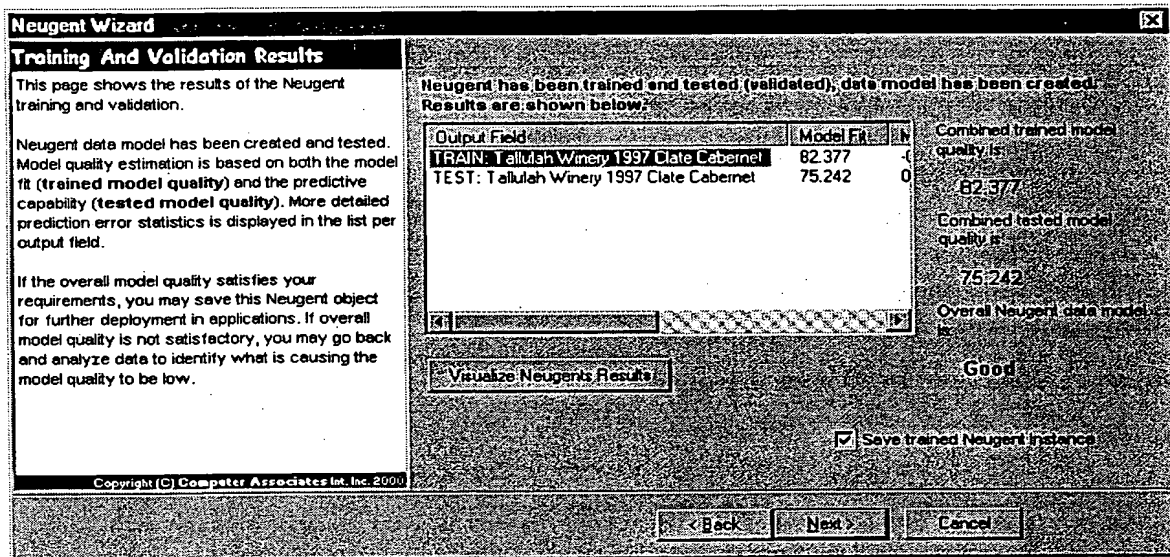


FIG. 11

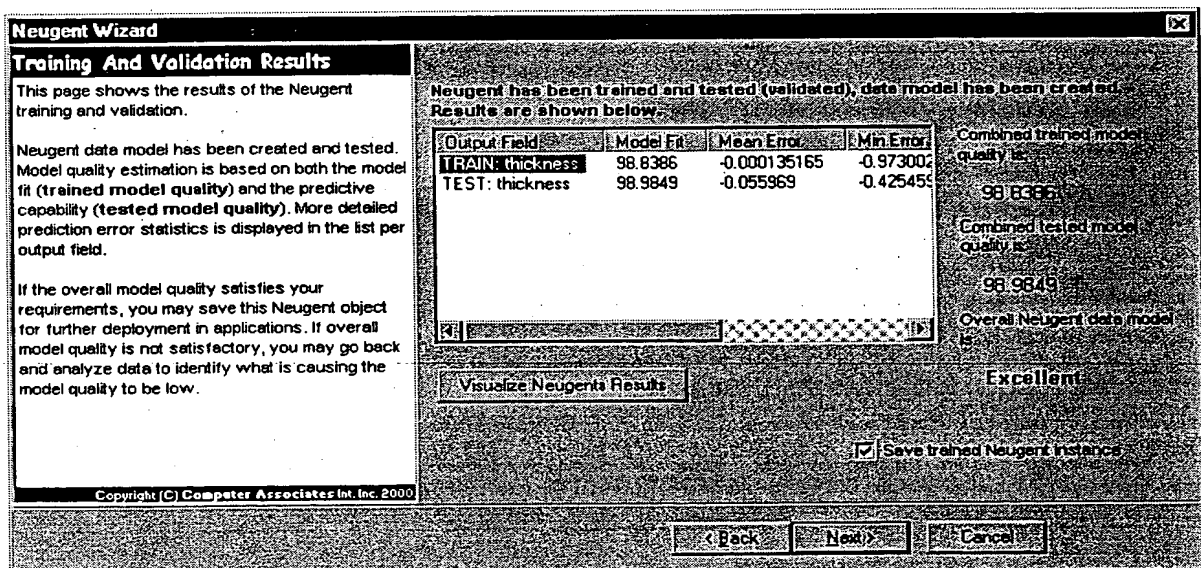


FIG. 12

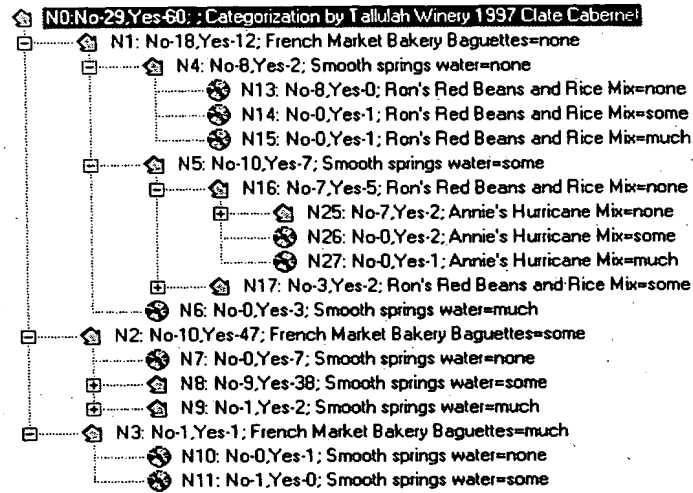


FIG. 13

Wine Example

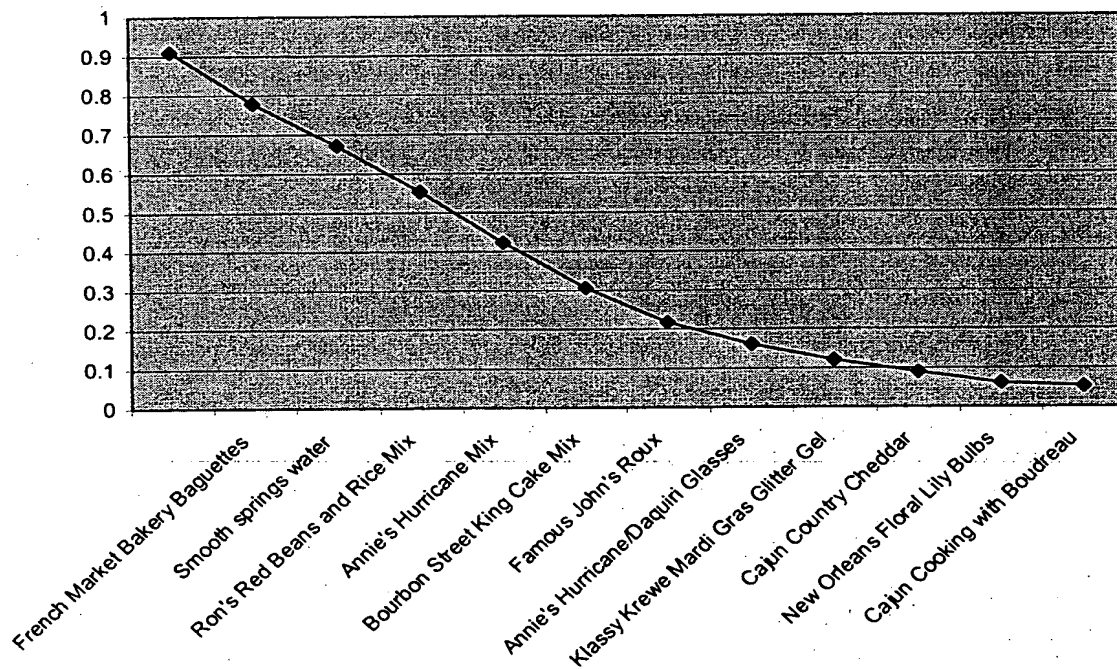


FIG 14

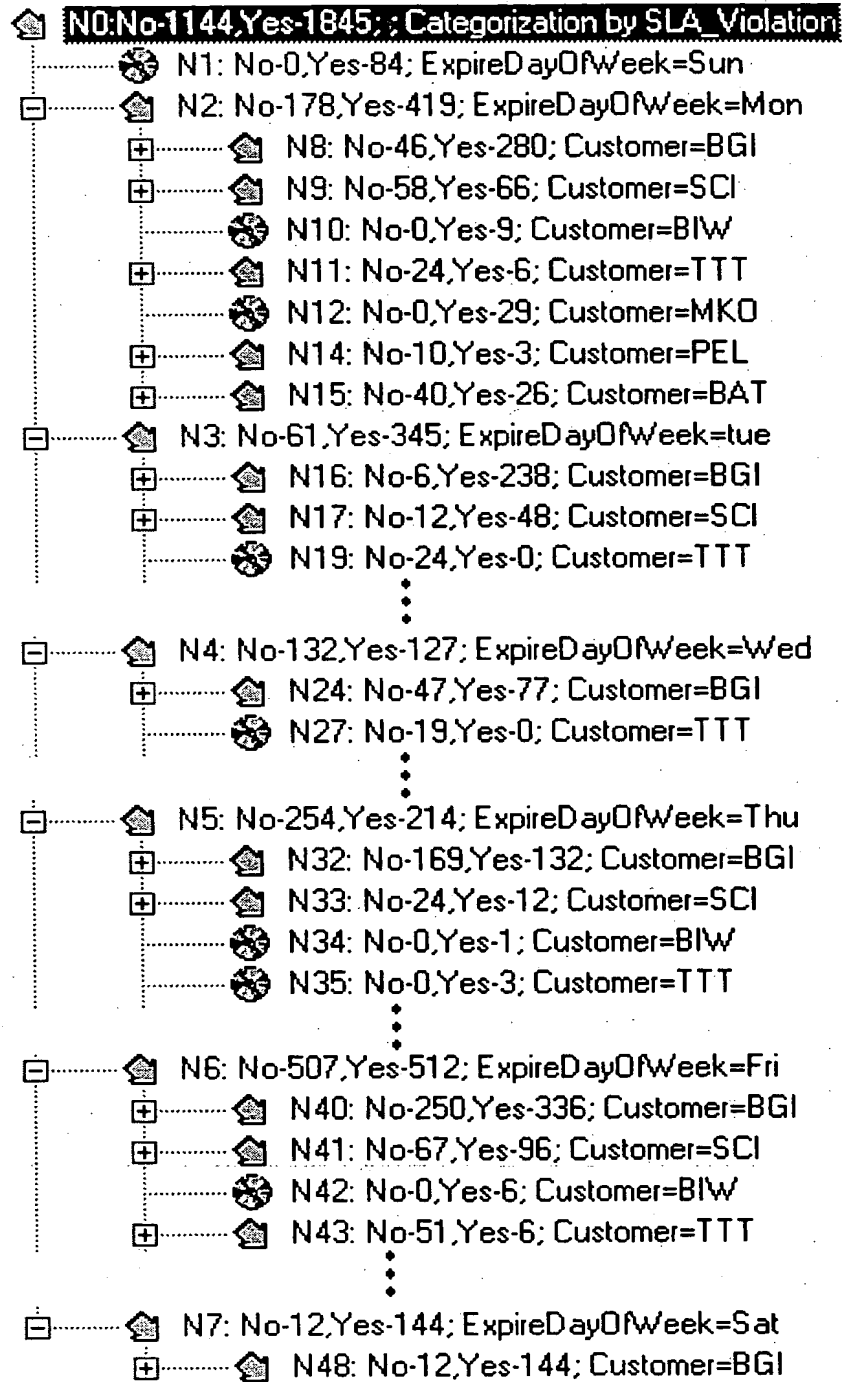


FIG. 15

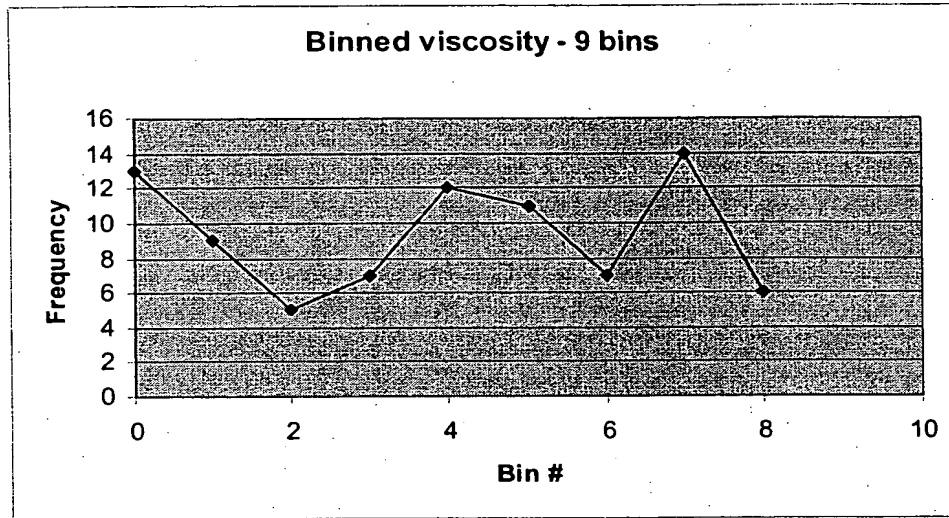


FIG. 16

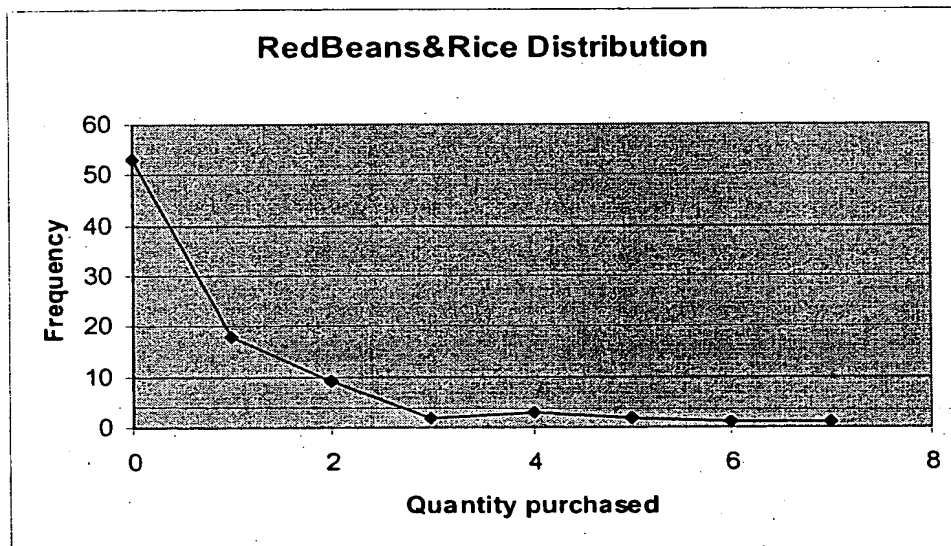


FIG. 17

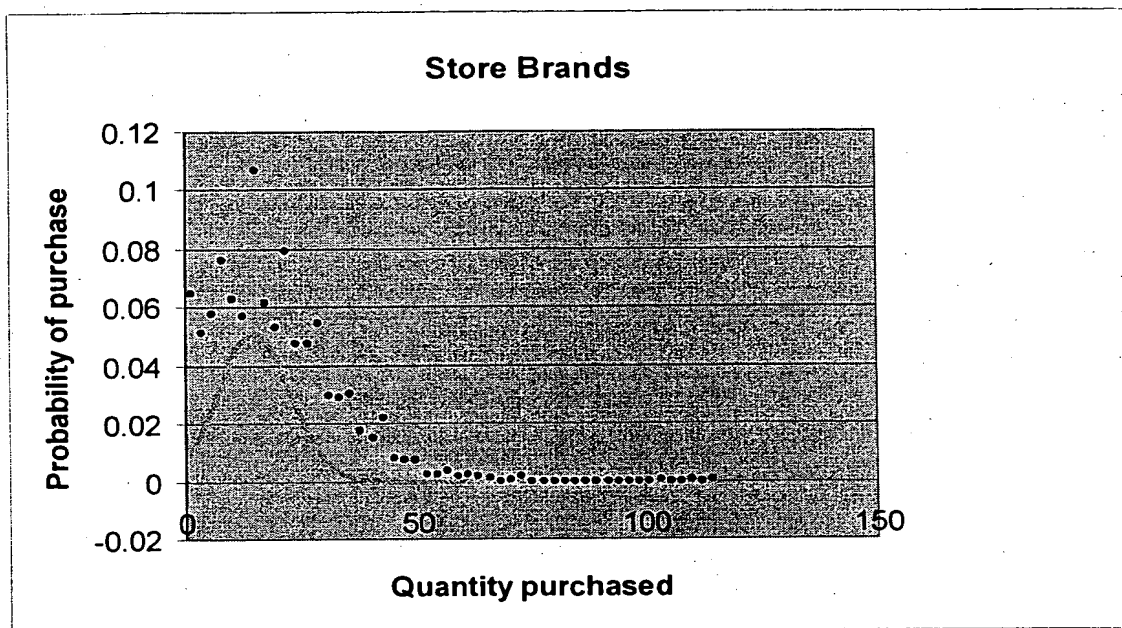


FIG. 18

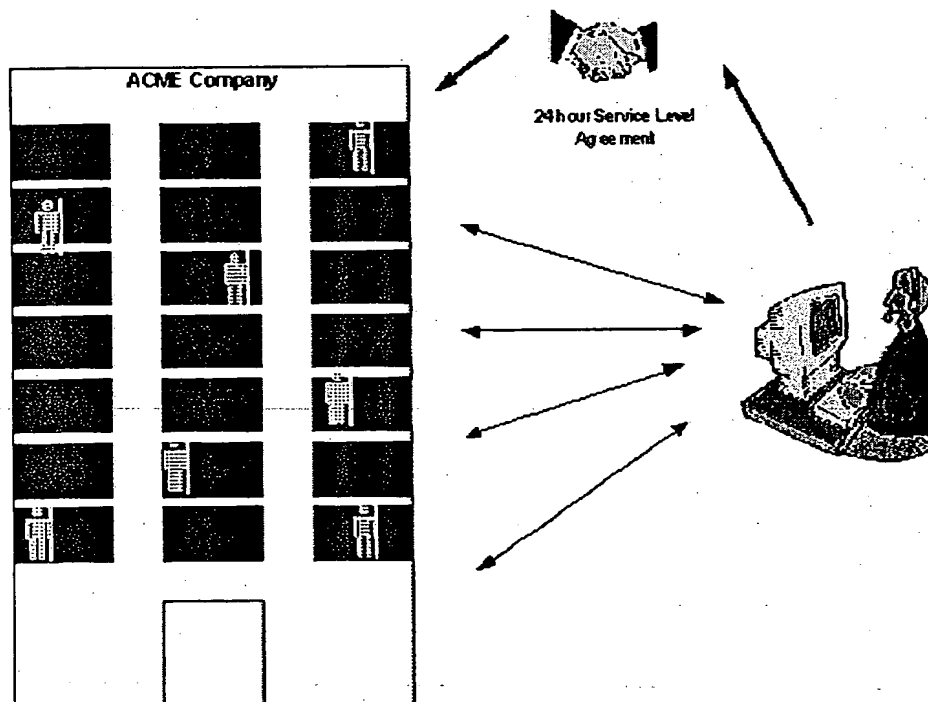
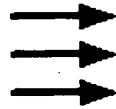


FIG. 19

Problem Codes influencing SLAs

Last Week

1	Network
2	PC
3	Mainframe
4	Password
5	Word Processing
6	Spreadsheet
7	Dial-up
8	Hardware
9	Email
10	Software Upgrade



This Week

1	PC
2	Network
3	Printer
4	Software Upgrade
5	Password
6	Dial-up
7	Spreadsheet
8	Hardware
9	Email
10	Word Processing

FIG. 20

NeugentAHD Configuration

File Tools

AHD Neugent instance:

General Features Training CATree

Neugent Name:

Model Lead: Model Lag:

Minimum accuracy (%): Use Historian: ☒

Missing lag action: Run Historical Data: ☐

Pattern Purge

Time:

Conditions

Check interval (secs.):

Sample interval (secs.):

Sample reference time:

Sample tolerance (secs.):

Evaluate interval (secs.):

Evaluate reference time:

Evaluate tolerance (secs.):

Save interval (secs.):

Save reference time:

Save tolerance (secs.):




FIG. 21

NeugentsAHD Configuration

File Tools

AHD Neugent instance:

General Features Training CATree

Feature Specification:

Namespace: ☐ Outputs only

Feature names:

SQL Statement:

Stored procedure: ☐

Stored procedure name:

Stored Procedure result:

Stored Procedure script:

Closure Conditions:

Stored Procedure parameters:

Param	Value

Is lookup: ☐

Local key:

FeatureSpec doing lookup:

Foreign key:

Pre-processing specifications:

Feature	Method	New Feature	Parameters

FIG. 22

NeugentsAHD Configuration

File Tools

AHD Neugent instance:

General **Features** **Training** **CA Tree**

Pattern label:

Group Key:

Model inputs

Feature	Lag
temperature	12
rainfall	12
isnorthcoastdrainage	0
iscentralcoastdrainage	0
issanjoachindrainage	0

Training pattern conditions

$\$time_stamp\$ \leq \$system_time\$ - (26 * \$pattern_intervals\$)$

Evaluation pattern conditions: sting

$\$TIME_STAMP\$ > \$SYSTEM_TIME\$ - (26 * \$PATTERN_INTERVAL\$)$

Model Outputs

Feature	Lead	MinAcc	Threshold	Low Limit	Hi Limit
temperature	3	90		-40	140
rainfall	3	70		0	50

Event conditions

Field	Operator	Value
temperature	GT	70
rainfall	LE	0

FIG. 23

NeugentsAHD Configuration

File Tools

AHD Neugent instance: CaliforniaWeather New Neugent Copy Neugent

General Features Training CATree

CATree parameters

Field	Output	delimiter	SignLvl	IgnoreList	KeepCri

Binning spec.:

FIG. 24

The image shows a screenshot of a Windows-style dialog box titled "AHD Connection Information". The dialog box has a standard title bar with minimize, maximize, and close buttons. It contains several text input fields and two buttons. The fields are labeled as follows:

- AHD Server Name:** An empty text box.
- AHD Server Address:** An empty text box.
- AHD Neugent Account:** A text box containing the text "neugentsahd".
- AHD Neugent Password:** A text box containing several asterisks "*****".
- AHDLocalStore:** A text box containing the text "NAHD_LOCAL_STORE/neugentsa".
- Local Store Filename:** A text box containing the text "NeugMO.lst".
- Local Store Directory:** A text box containing the text "d:\neugahd".
- Historian Data Source:** A text box containing the text "ahd_local_store.mdb".

On the right side of the dialog box, there are two buttons: "Done" and "Cancel".

FIG. 25

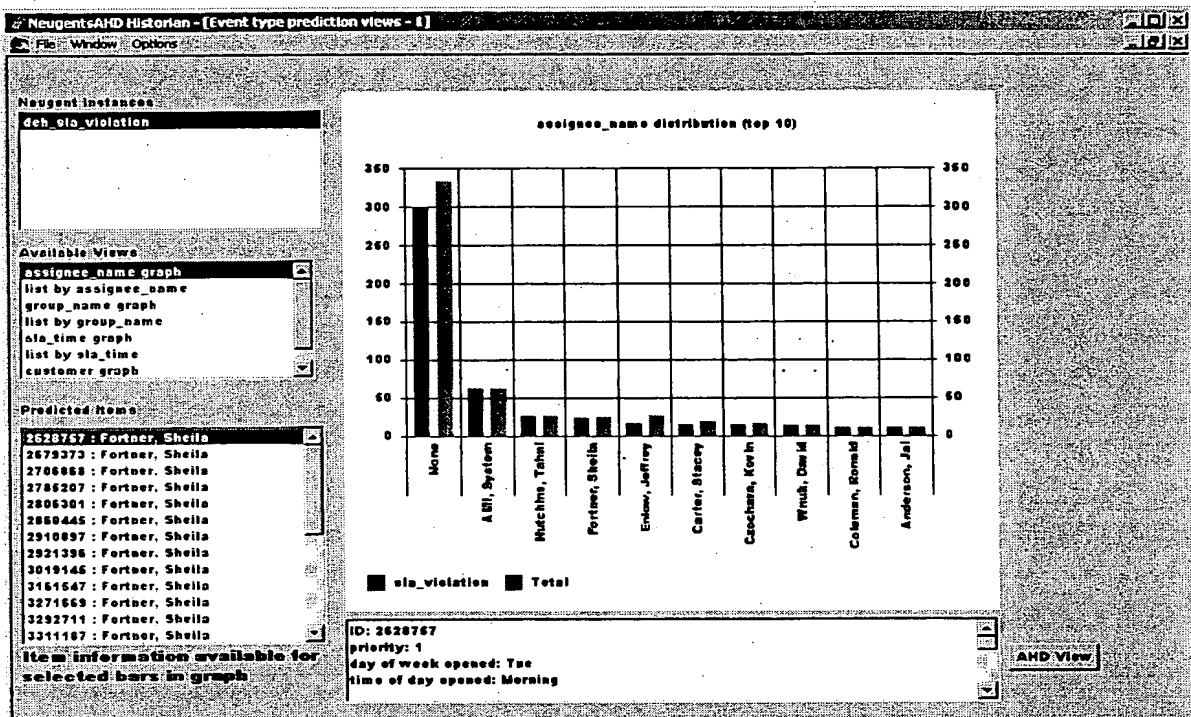


FIG. 26

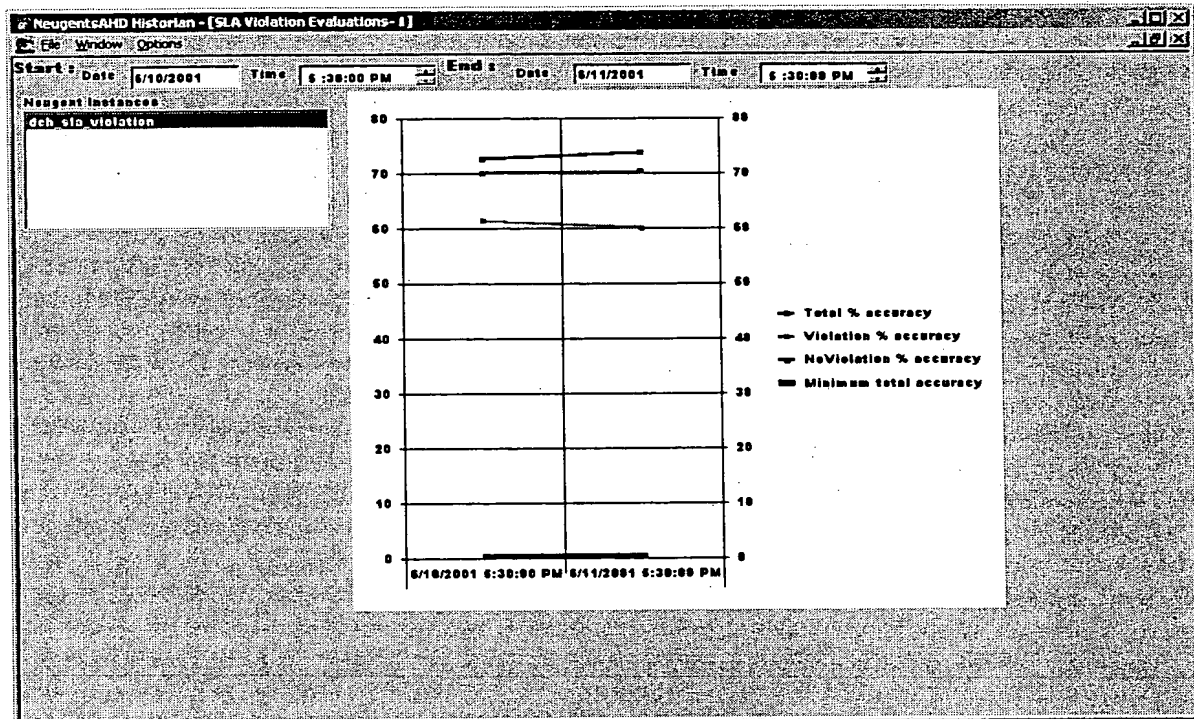


FIG. 27

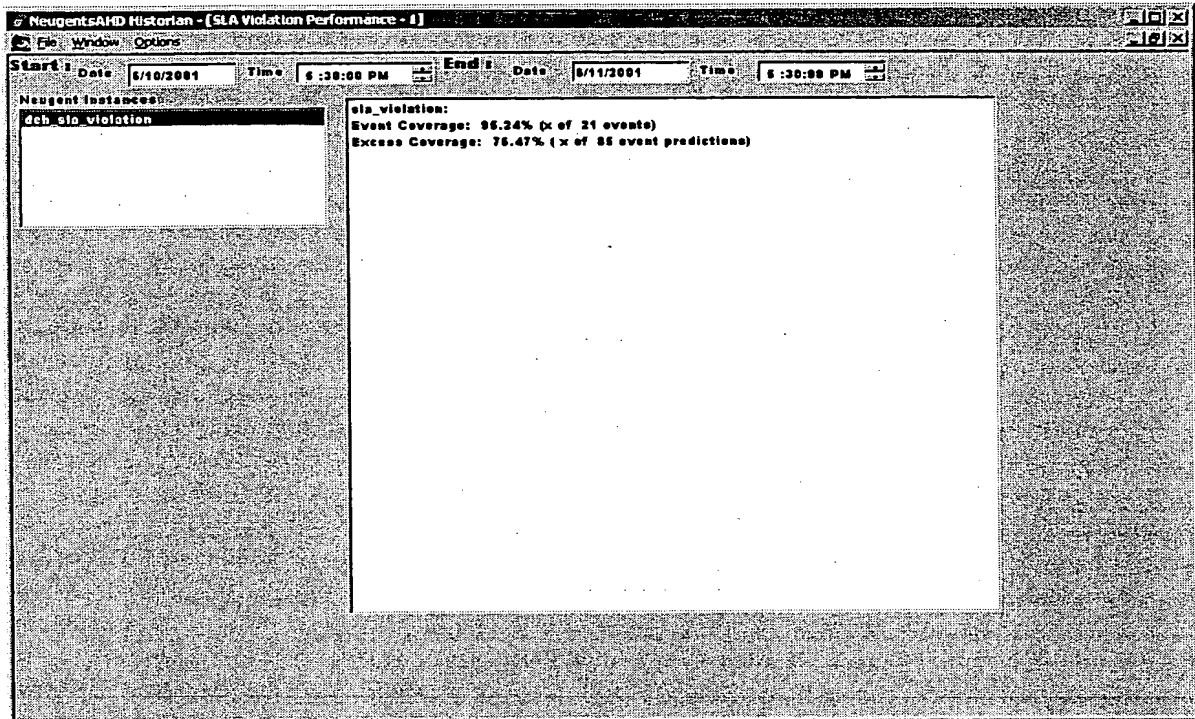


FIG. 28

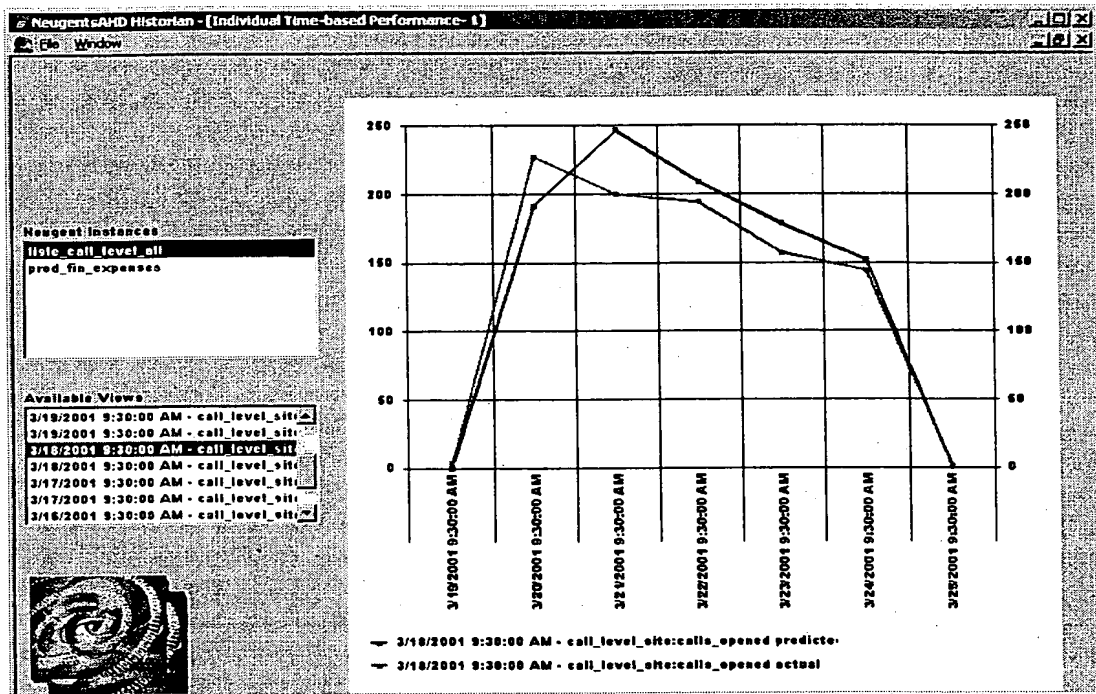


FIG. 29

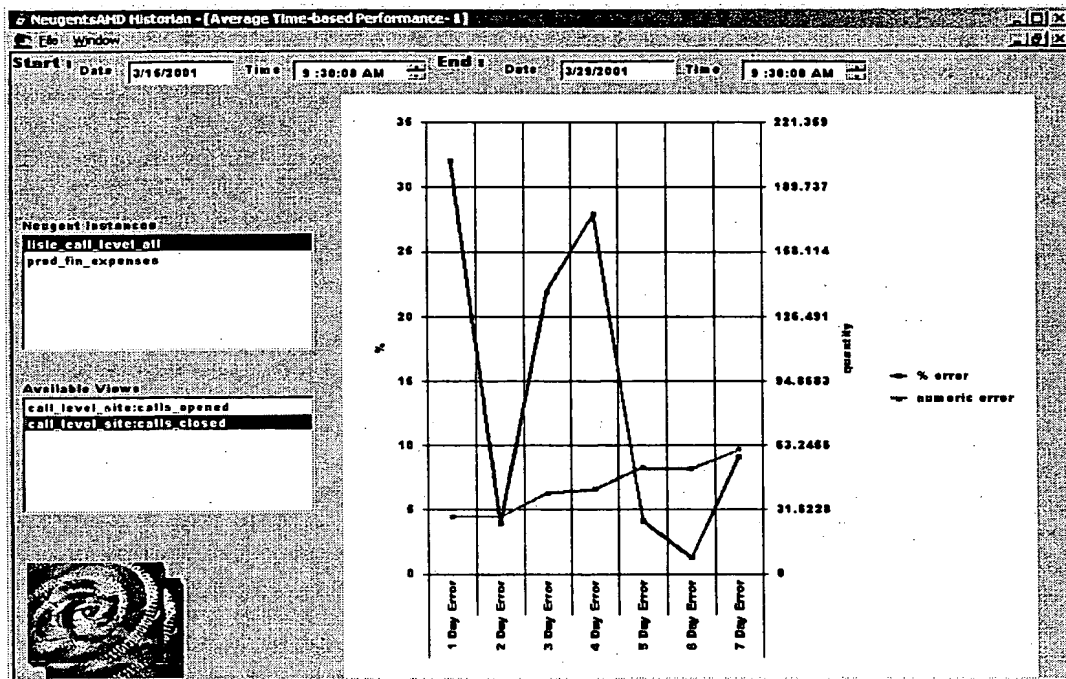


FIG 30

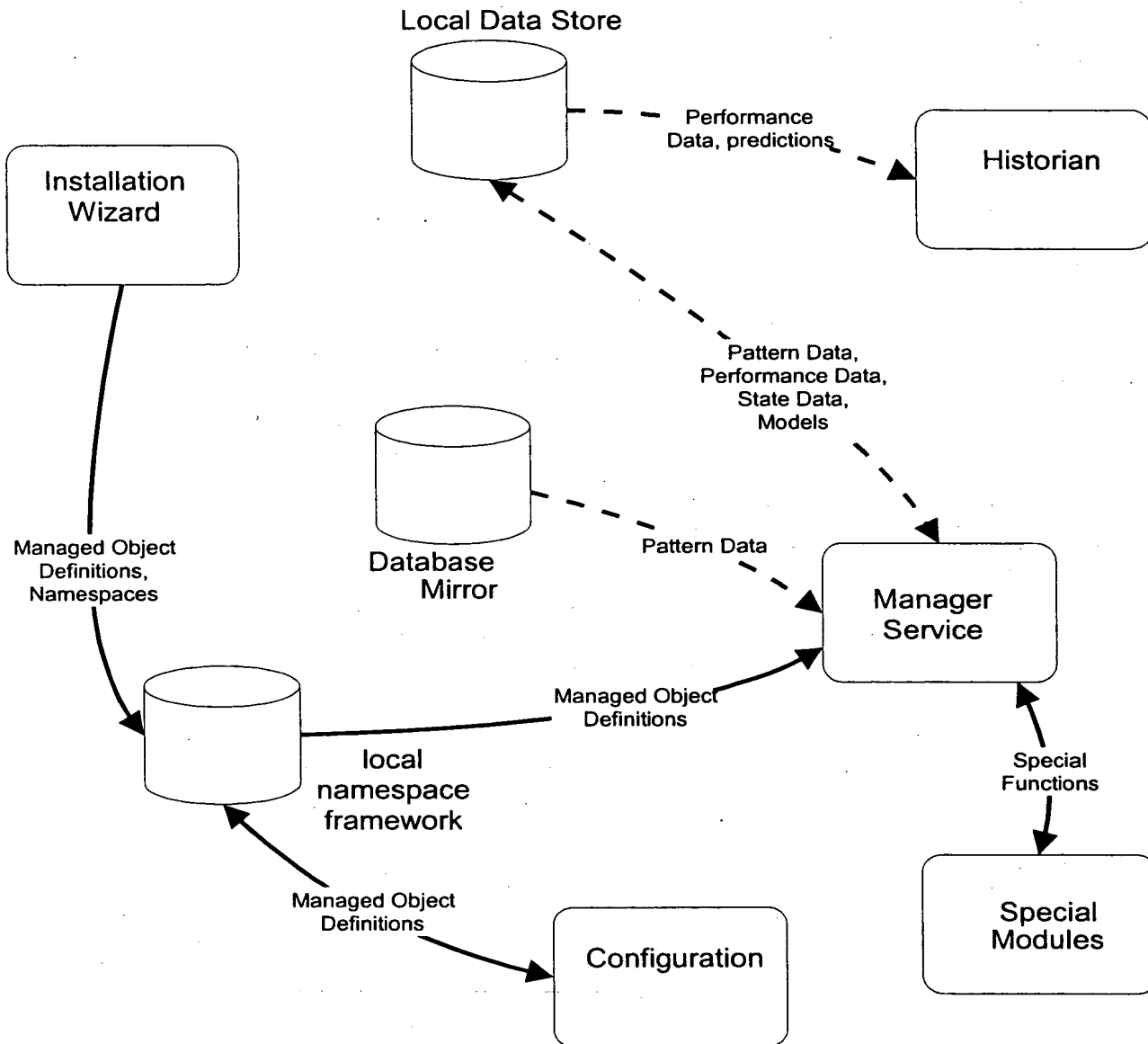


FIG. 31

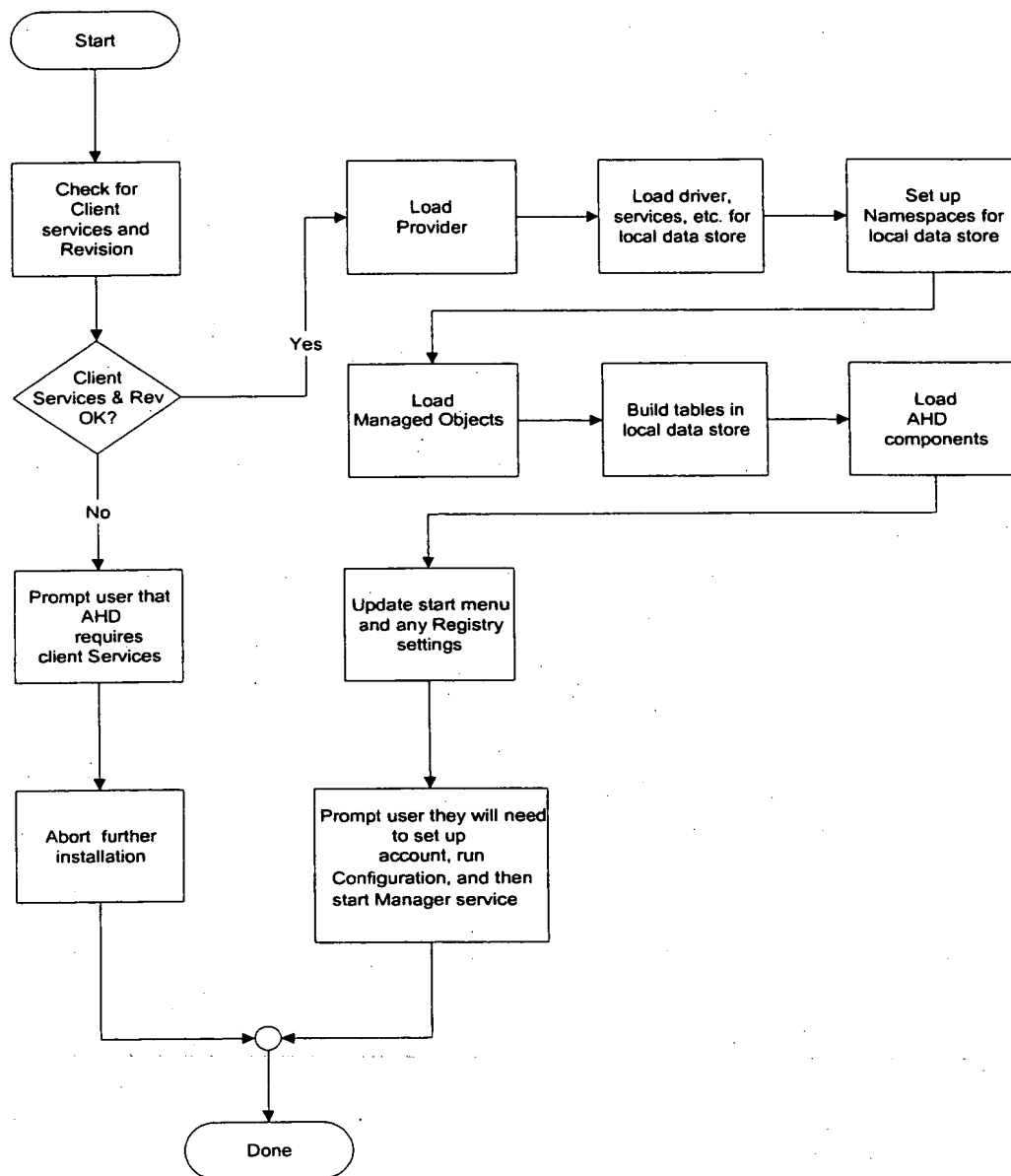


FIG. 32

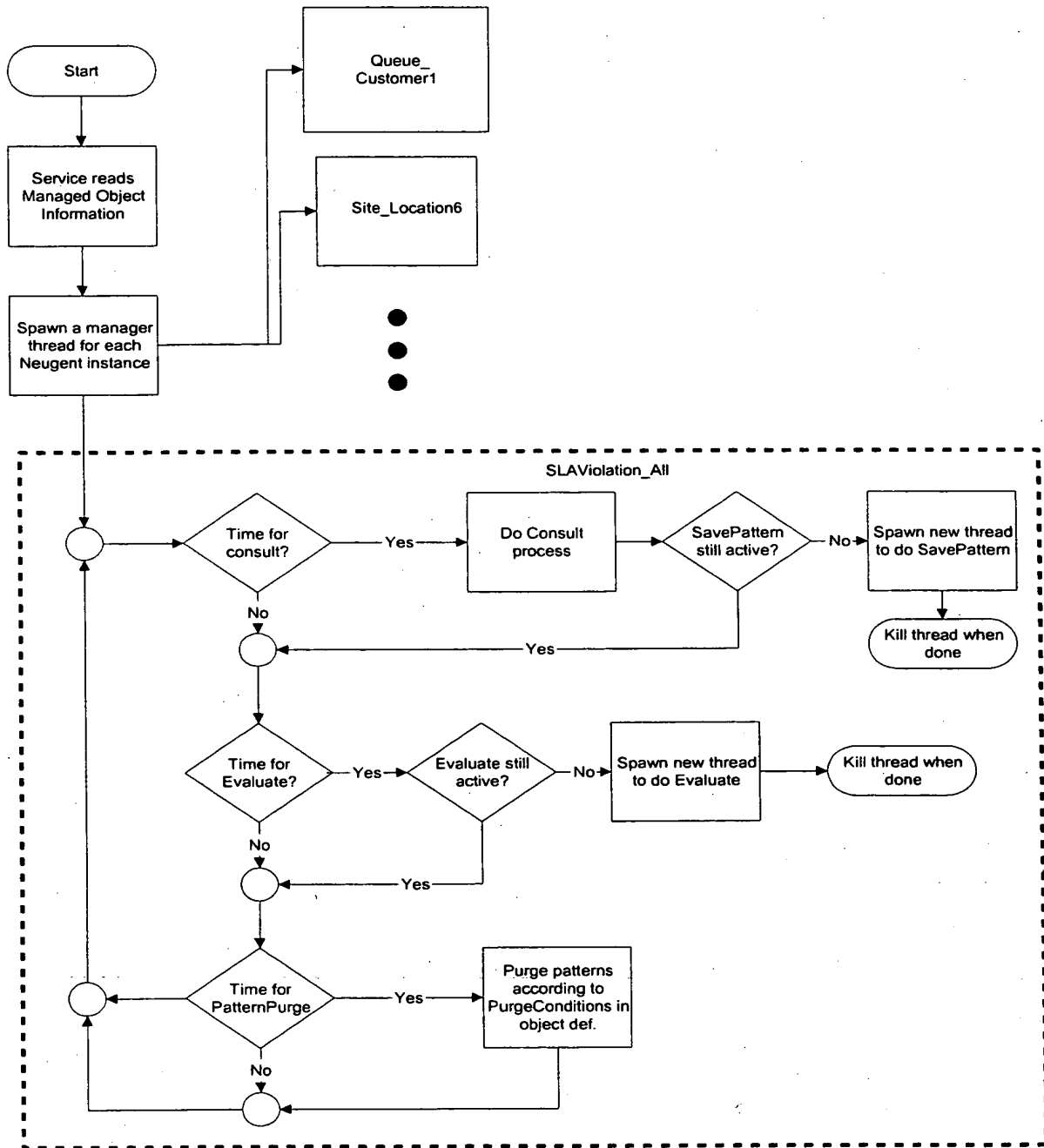


FIG. 33

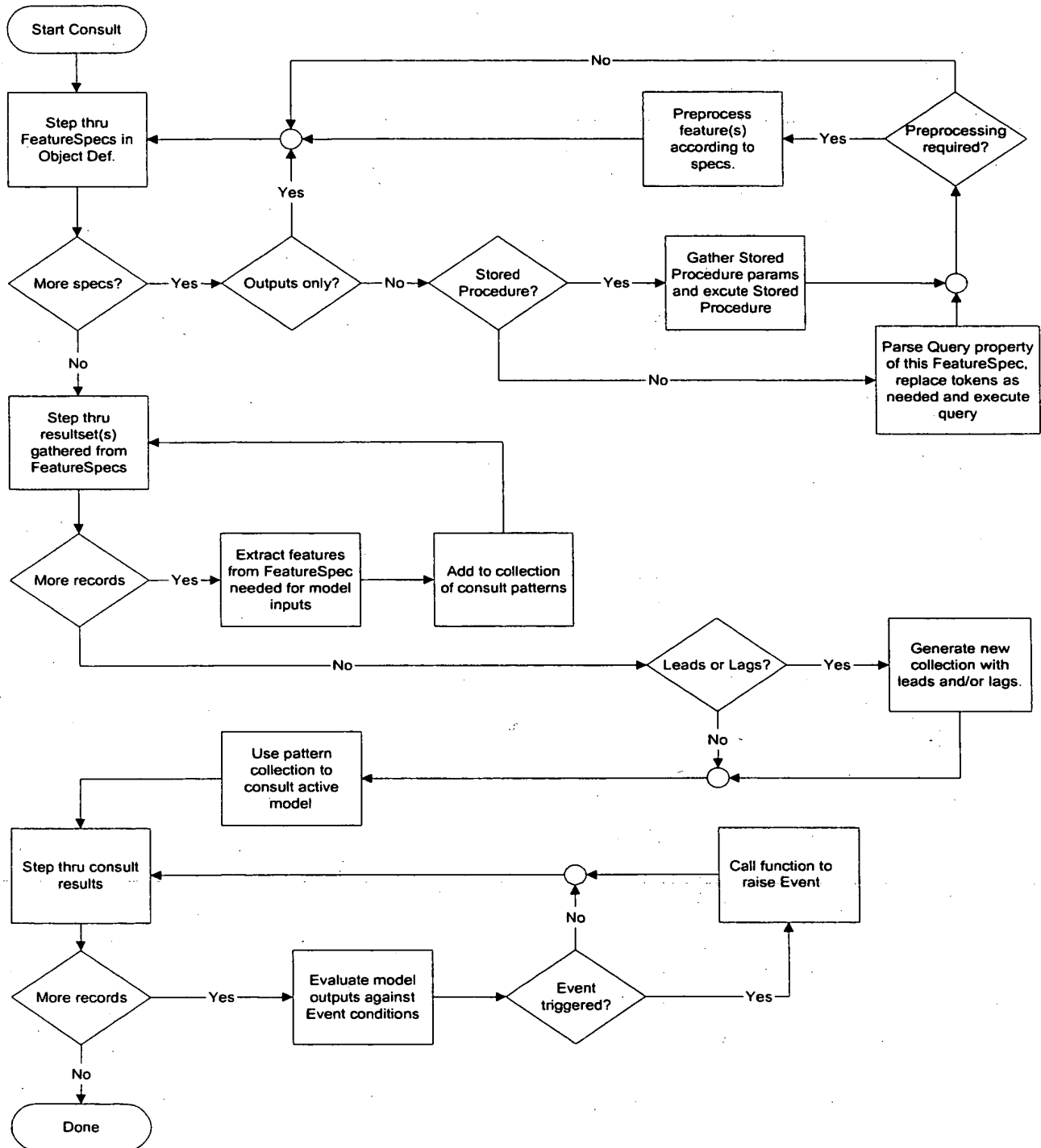


FIG. 34

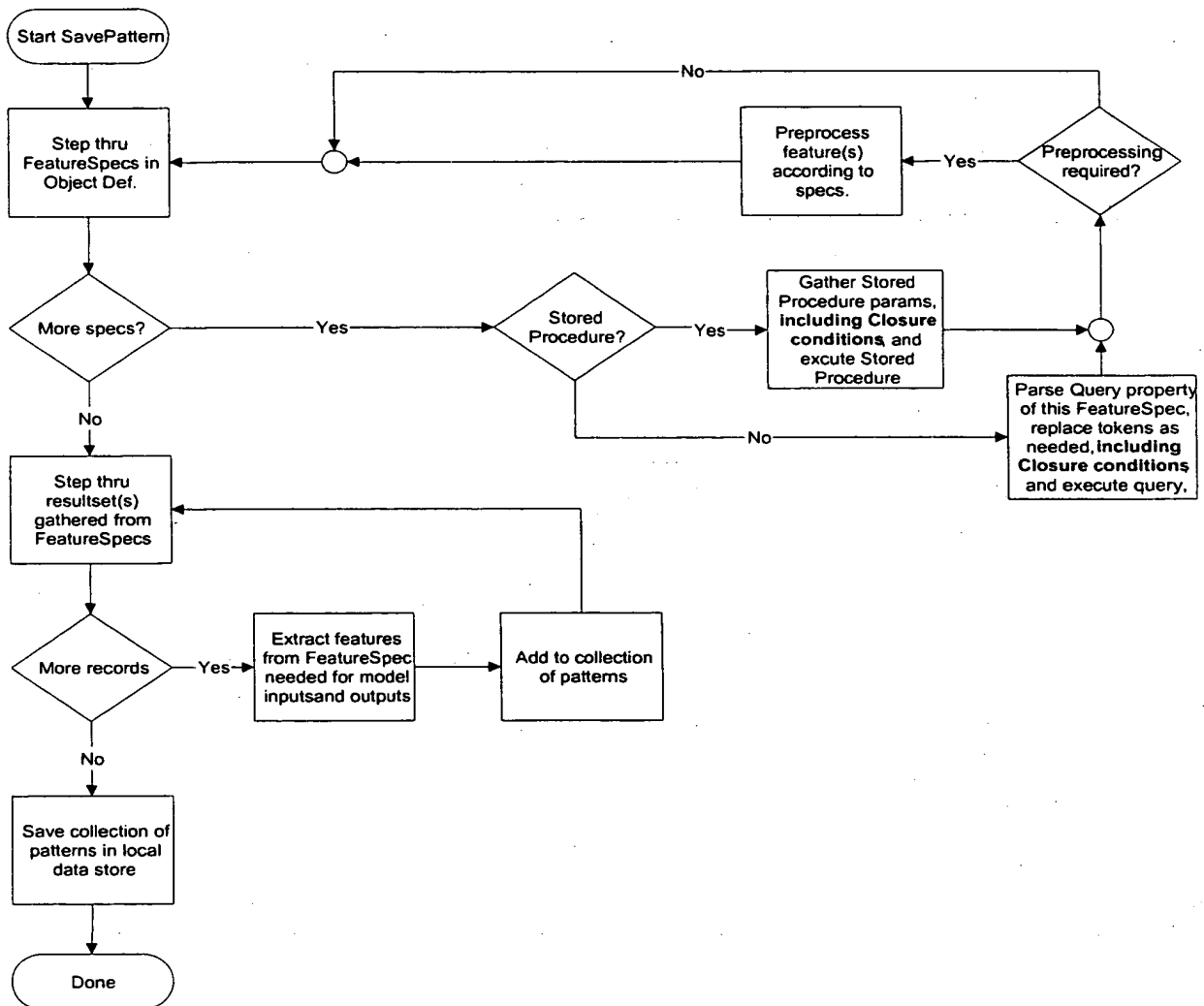


FIG. 35

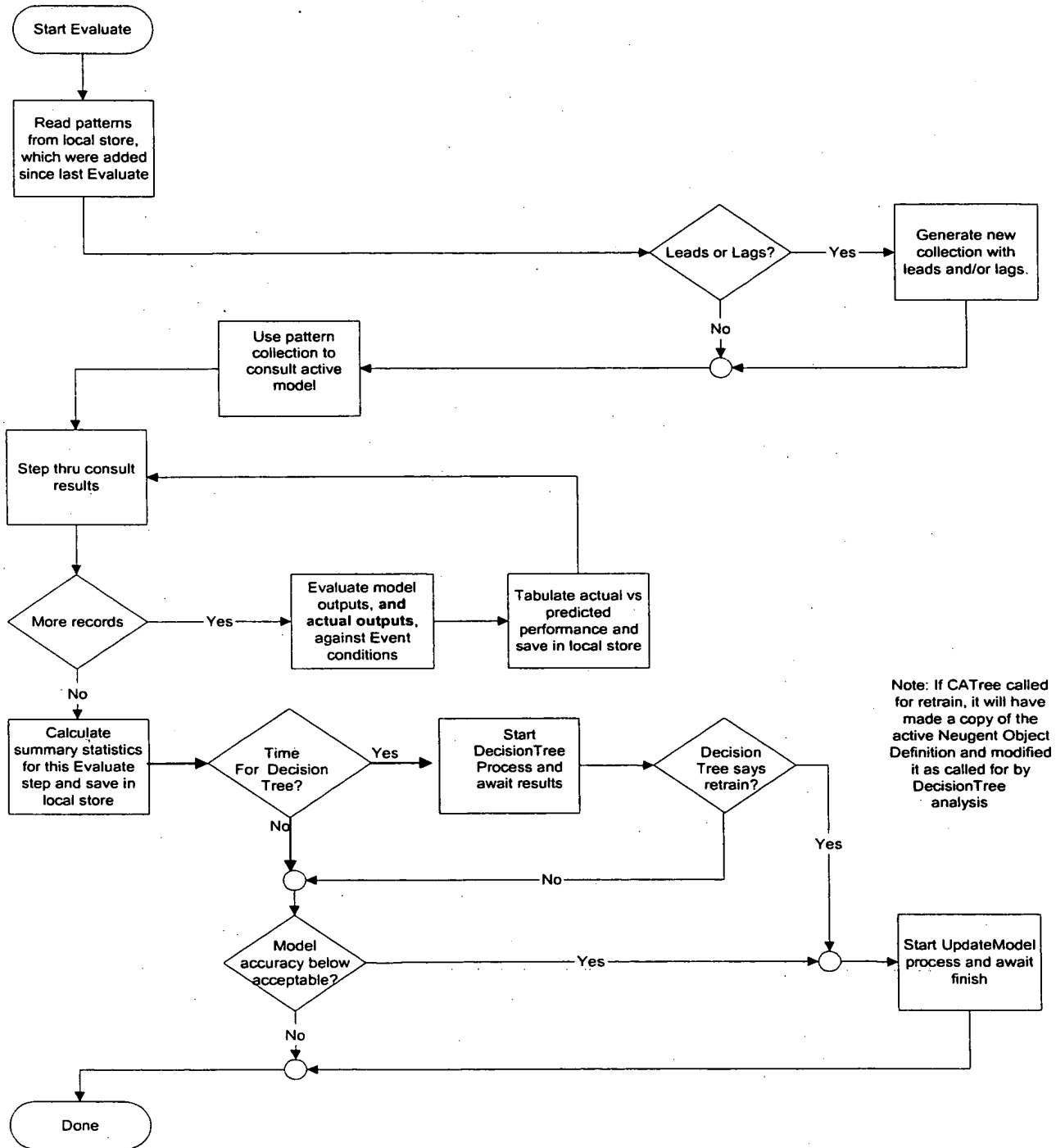


FIG. 36

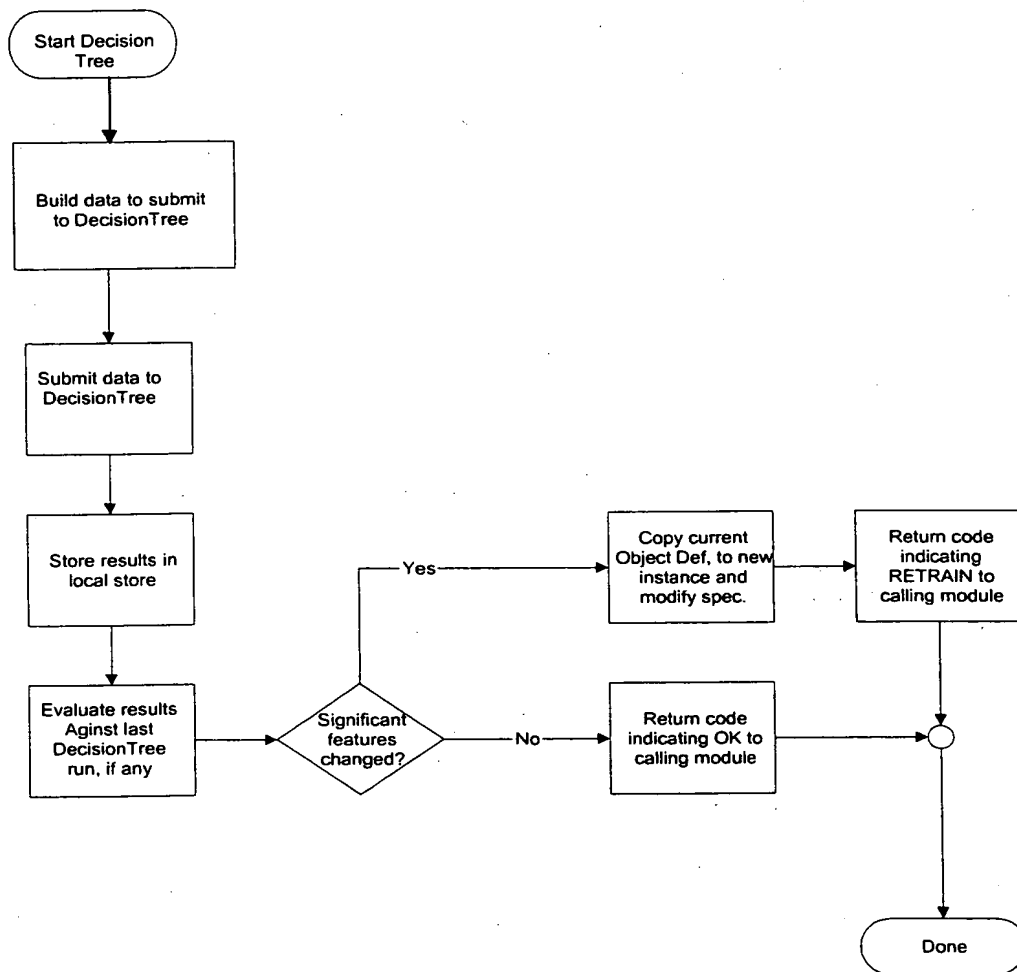


FIG. 37

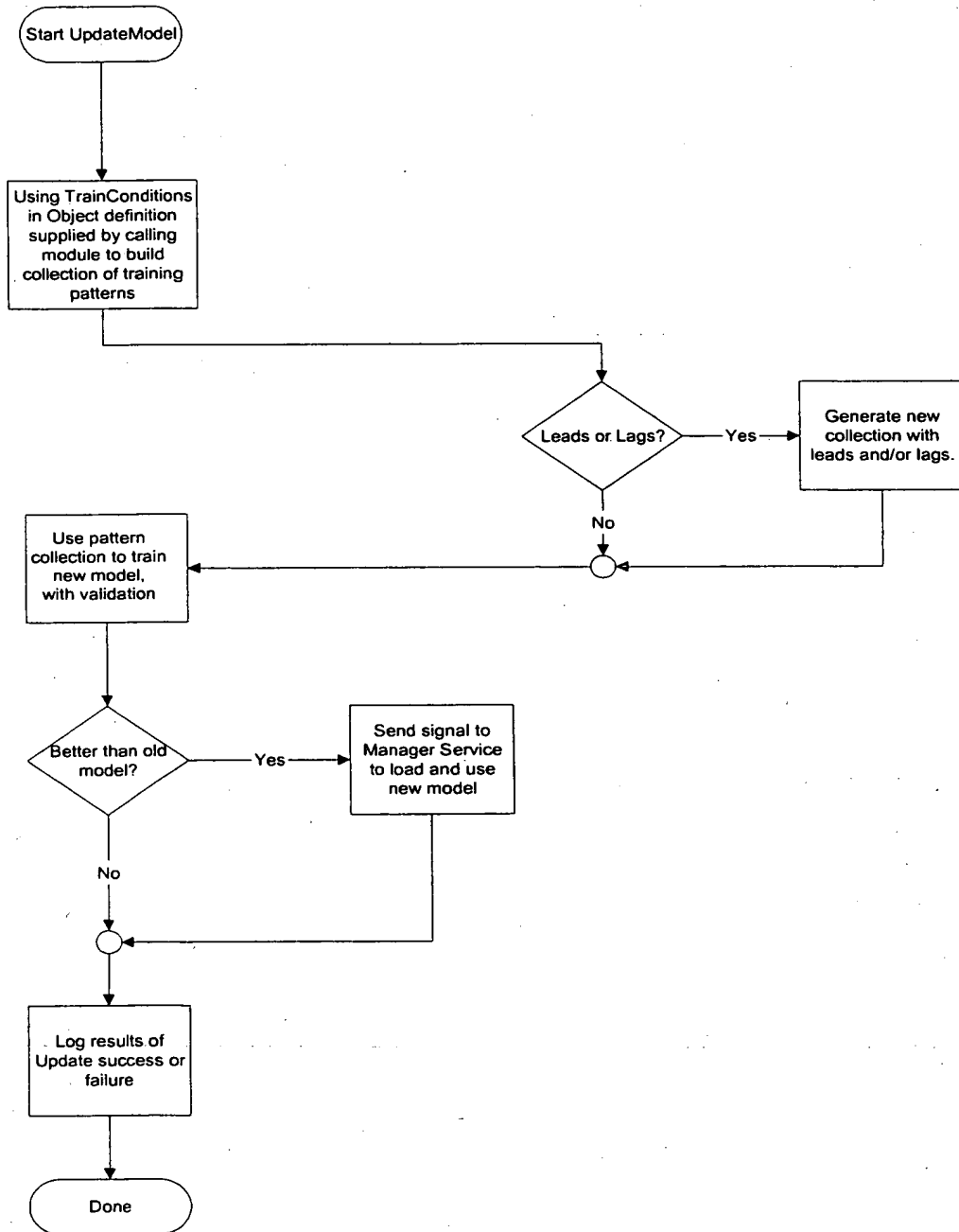


FIG. 38

